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BIOTECHNOLOGY
SYSTEMS
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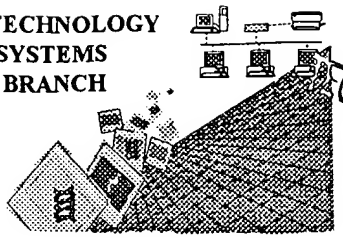

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/672,126A
Source: 1600
Date Processed by STIC: 2/20/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. **Hand Carry directly to:**
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Revised 01/29/2002

1600

RAW SEQUENCE LISTING DATE: 02/20/2003
PATENT APPLICATION: US/09/672,126A TIME: 16:01:24

Input Set : A:\seqlist.txt
Output Set: N:\CRF4\02202003\I672126A.raw

```
 4 <110> APPLICANT: Hartmann, Gunther
 5       Bratzler, Robert L.
 6       Krieg, Arthur
 9 <120> TITLE OF INVENTION: Methods Related to Immunostimulatory
10       Nucleic Acid-Induced Interferon
13 <130> FILE REFERENCE: C1039/7044
15 <140> CURRENT APPLICATION NUMBER: 09/672,126A
17 <141> CURRENT FILING DATE: 2000-09-27
19 <150> PRIOR APPLICATION NUMBER: 60/156,147
20 <151> PRIOR FILING DATE: 1999-09-29
E--> 22 <160> NUMBER OF SEQ ID NOS: 165 /169 (see p. 2)
24 <170> SOFTWARE: FastSEQ for Windows Version 3.0
```

pp 1-2-3

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES

```
1109 <210> SEQ ID NO: 52
1110 <211> LENGTH: 0  20 shown  -> <212> DNA
1111 <213> ORGANISM: Artificial Sequence
1113 <220> FEATURE:
1114 <223> OTHER INFORMATION: Synthetic Oligonucleotide

1116 <400> SEQUENCE: 52
1117  ATGGAAGGTCCAGCGTTCTC
```

Insert this mandatory numeric identifier and response

insert cumulative base total at right margin of each line

20

insert a space after each group of 10 nucleotides

all nucleotides MUST be in lower-case letters, when Sequence Listing is in new Sequence Rules format

<210> 169 last sequence in submitted file
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is 0-20 of any nucleotide variable length is not permitted (see item 5 on Error Summary Sheet)

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is 0-20 of any nucleotide

<400> 169
gggngggngg g 11

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

Delete

FYI

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 02/20/2003
PATENT APPLICATION: **US/09/672,126A** TIME: 16:01:26

Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF4\02202003\I672126A.raw**

L:34 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:38 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:42 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:46 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:50 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:61 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:65 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:76 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:80 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:91 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:95 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:4
L:106 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:110 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:5
L:121 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:125 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:6
L:136 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:140 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:148 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:152 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7
L:164 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:168 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:179 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:183 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:187 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:191 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:195 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:9
L:206 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:210 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:214 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:218 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:223 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:234 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:238 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:242 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:246 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:250 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:261 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:265 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:269 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:273 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:277 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:288 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:293 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:297 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:301 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:305 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:13
L:317 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

VERIFICATION SUMMARY DATE: 02/20/2003
PATENT APPLICATION: **US/09/672,126A** TIME: 16:01:26

Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF4\02202003\I672126A.raw**

L:321 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:325 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:329 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:333 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:344 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:348 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:352 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:356 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:360 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15
L:371 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:375 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:379 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:383 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:387 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:398 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:402 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:406 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:410 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:414 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17
L:426 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:453 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:480 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:507 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:534 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:561 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:588 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:615 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:643 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:670 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:697 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:720 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:747 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:774 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:801 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:823 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:33
L:828 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:855 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:882 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:909 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:936 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1116 M:282 E: Numeric Field Identifier Missing, <212> is required.
L:1316 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1837 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2172 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2187 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2222 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2249 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2276 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2303 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!

VERIFICATION SUMMARY DATE: 02/20/2003
PATENT APPLICATION: **US/09/672,126A** TIME: 16:01:26

Input Set : **A:\seqlist.txt**
Output Set: **N:\CRF4\02202003\I672126A.raw**

L:2319 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2334 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2349 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2376 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2403 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158 after pos.:0
L:2638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:168 after pos.:0
L:2659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:169 after pos.:0
L:22 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (165) Counted (169)